

# WEST Search History

DATE: Monday, May 13, 2002

## Set Name Query

side by side

## Hit Count Set Name

result set

DB=USPT,PGPB; PLUR=YES; OP=OR

L15	L14 or l12	115	L15
L14	L11 and (atcc adj 21529)	1	L14
L13	L11 and (atcc 21529)	7984	L13
L12	L11 and (aspartokinase or (aspart\$ near3 kinase))	114	L12
L11	l1 or l2 or l3 or l4 or l5 or l6 or l7 or l8 or l9 or l10	18448	L11
L10	((((435/254.11)!.CCLS.))	1096	L10
L9	((((435/325)!.CCLS.))	5047	L9
L8	((((435/419)!.CCLS.))	1181	L8
L7	((((435/252.3)!.CCLS.))	5417	L7
L6	((((435/252.32)!.CCLS.))	114	L6
L5	((((435/115)!.CCLS.))	242	L5
L4	((((435/106)!.CCLS.))	299	L4
L3	((435/320.1)!.CCLS. )	11082	L3
L2	((536/23.7)!.CCLS. )	1516	L2
L1	((536/23.1  536/23.2)!.CCLS. )	9467	L1

END OF SEARCH HISTORY

WO 94/25605

6 221636

EP 0 219 027 (lysC allele - feedback-resistant)

DE -A-39 43 117 - from M20

EP -A-0 841 395

EP -A-0 857 784

Kalinowski 317 - from Cig BM58-1

Follettie pg 4096 - from C.f. N13 (called ask)

P 26512

JP 1-29559

EP -B-0387527

6319696

EP -A-0 699759

WO 96/41871

WO 95/16042

6 338956

=> s atcc (2w) 21529  
L1 0 ATCC (2W) 21529

=> s 21529  
L2 0 21529

=> d his

(FILE 'HOME' ENTERED AT 15:30:32 ON 13 MAY 2002)

FILE 'CAPLUS, BIOSIS' ENTERED AT 15:30:44 ON 13 MAY 2002  
L1 0 S ATCC (2W) 21529  
L2 0 S 21529

=>

# WEST Search History

DATE: Monday, May 13, 2002

## Set Name Query

side by side

## Hit Count Set Name

result set

*DB=USPT;PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR*

L15	L14 and (mutant or mutation)	40	L15
L14	l7 and (coryneform or corynebacter\$ or brevibacter\$)	62	L14
L13	L8 and (380\$3 or thr380\$3 or t380\$3 or threonine380\$3)	24	L13
L12	L8 and (380\$3 or thr380\$3 or t380\$3 or threonine380\$3)	24	L12
L11	L8 and (380\$3)	24	L11
L10	L8 and (380\$)	21	L10
L9	L8 and 380	16	L9
L8	L6 with feedback	173	L8
L7	L6 same feedback	387	L7
L6	aspartokinase or (aspart\$ adj2 kinase) or lysc\$1 or ask\$1	20344	L6

*DB=USPT; PLUR=YES; OP=OR*

L5	L4 not l3	20	L5
L4	21529	24	L4
L3	atcc near3 21529	4	L3
L2	atcc near 21529	4	L2
L1	3708395.pn.	1	L1

END OF SEARCH HISTORY

09/722441  
STN Search Summary

=> d his

FILE 'CAPLUS' ENTERED AT 14:34:30 ON 13 MAY 2002

L1 2351 S ASPARTOKINASE OR (ASPART(2W) KINASE) OR LYSC# OR ASK#  
 L2 2654 S ASPARTOKINASE OR (ASPART(2W) KINASE) OR LYSC# OR ASK#  
 L3 265 S L2 AND FEEDBACK  
 L4 58 S L3 AND (CORYNEFORM OR CORYNEBACTER? OR BREVIBACTER? OR GLUTAM  
 L5 53 S L4 AND PD<2001  
 L6 1 S L2 AND (THR380? OR ((THR OR THREONINE) (2W) 380) OR T380#)  
 L7 967 S L2 AND (LYSINE OR ASPARTATE OR AMINO)  
 L8 231 S L7 AND FEEDBACK  
 L9 201 S L7 AND (CORYNEFORM OR CORYNEBACTER? OR BREVIBACTER? OR GLUTAM  
 L10 57 S L8 AND (CORYNEFORM OR CORYNEBACTER? OR BREVIBACTER? OR GLUTAM  
 L11 1 S L4 NOT L10

L5 ANSWER 1 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 2000:756870 CAPLUS  
 TI Novel desensitized aspartokinase of coryneform  
 bacteria and its use for producing L-lysine  
 IN Yokoi, Haruhiko; Ohnishi, Junko; Ochiai, Keiko; Yonetani, Yoshiyuki;  
 Ozaki, Akio  
 SO PCT Int. Appl., 33 pp. *late*  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI WO 2000-063388 A1 20001026 WO 2000-JP2456 20000414 <--  
 EP 1172437 A1 20020116 EP 2000-917314 20000414  
 PRAI JP 1999-110437 A 19990419  
 WO 2000-JP2456 W 20000414

L5 ANSWER 2 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:672657 CAPLUS  
 TI Increasing seed lysine content by lowering seed levels of lysine  
 ketoglutarate reductase and increasing dihydroadipicolinate synthase levels  
 IN Falco, Saverio Carl; McDevitt, Raymond Ervin, III; Epelbaum, Sabine Ursula  
 SO PCT Int. Appl., 232 pp.  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI WO 9842831 A2 19981001 WO 1998-US6051 19980327 <--  
 WO 9842831 A3 19981210  
 AU 9867801 A1 19981020 AU 1998-67801 19980327 <--  
 EP 973880 A2 20000126 EP 1998-913190 19980327 <--  
 BR 9811256 A 20000718 BR 1998-11256 19980327 <--  
 JP 2001502923 T2 20010306 JP 1998-543284 19980327  
 PRAI US 1997-824627 A1 19970327  
 WO 1998-US6051 W 19980327

L5 ANSWER 3 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:493560 CAPLUS  
 TI Manufacture of L-lysine with a coryneform bacteria carrying  
 mutations in several genes of lysine biosynthesis  
 IN Araki, Masayuki; Sugimoto, Masakazu; Yoshihara, Yasuhiko; Nakamatsu,  
 Tsuyoshi  
 SO Eur. Pat. Appl., 59 pp.  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
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PI	EP 854189	A2	19980722	EP 1997-121443	19971205 <--
	JP 10215883	A2	19980818	JP 1997-333238	19971203 <--
	CN 1187540	A	19980715	CN 1997-120820	19971205 <--
	BR 9706059	A	19991005	BR 1997-6059	19971205 <--
	US 6004773	A	19991221	US 1997-985908	19971205 <--
PRAI	JP 1996-325659		19961205		

L5 ANSWER 4 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1998:441970 CAPLUS

TI Increasing the lysine and threonine content of the seeds of plants by introduction of genes for feedback-insensitive biosynthetic enzymes

IN Falco, Saverio Carl; Keeler, Sharon Jo; Rice, Janet Ann

SO U.S., 106 pp., Cont.-in-part of U. S. Ser. No. 178,212, abandoned.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5773691	A	19980630	US 1995-474633	19950607 <--
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PRAI	US 1992-855414		19920319		
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	US 1994-178212		19940106		
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L5 ANSWER 5 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1998:405572 CAPLUS

TI Preparation of L-lysine with transgenic coryneform bacteria expressing aspartokinase mutant and diaminopimelate decarboxylase and phosphoenolpyruvate carboxylase

IN Hayakawa, Atsushi; Sugimoto, Masaichi; Yoshihara, Yasuhiko; Nakamatsu, Ko

SO Jpn. Kokai Tokkyo Koho, 38 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 10165180	A2	19980623	JP 1996-325658	19961205 <--
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	CN 1187539	A	19980715	CN 1997-120819	19971205 <--
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	EP 857784	A2	19980812	EP 1997-121444	19971205 <--
--	-----------	----	----------	----------------	--------------

	BR 9706058	A	19991005	BR 1997-6058	19971205 <--
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	US 6221636	B1	20010424	US 1997-985916	19971205
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PRAI	JP 1996-325658	A	19961205		
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L5 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1997:803726 CAPLUS

TI Production of L-lysine in genetically engineered coryneform bacteria

IN Hirano, Seiko; Sugimoto, Masakazu; Nakano, Eiichi; Izui, Masako; Hayakawa,

Atsushi; Yoshihara, Yasuhiko; Nakamatsu, Tsuyoshi

SO Eur. Pat. Appl., 63 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 811682	A2	19971210	EP 1997-108764	19970602 <--
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	EP 811682	A3	19980610		
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	JP 09322774	A2	19971216	JP 1996-142812	19960605 <--
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	US 6090597	A	20000718	US 1997-852730	19970507 <--
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	CN 1171442	A	19980128	CN 1997-112960	19970605 <--
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	BR 9703475	A	19980929	BR 1997-3475	19970605 <--
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PRAI	JP 1996-142812	A	19960605		
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L5 ANSWER 7 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1997:631540 CAPLUS

TI L-isoleucine manufacture with Corynebacterium glutamicum and analysis of the regulation of the ilvBNC-operon

AU Morbach, Susanne  
 SO Ber. Forschungszent. Juelich (1997), Juel-3398, 1-105 pp.

L5 ANSWER 8 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:232833 CAPLUS

TI Site-directed mutagenesis of the aspartokinase gene *lysC*  
 and its characterization in *Brevibacterium flavum*

AU Lu, J.-H.; Liao, C.-C.  
 SO Lett. Appl. Microbiol. (1997), 24(3), 211-213

L5 ANSWER 9 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:141025 CAPLUS

TI L-lysine and its production with recombinant corynebacteria  
 carrying gene *lysC* mutant and reinforced with other genes

IN Otsuna, Seiko; Sugimoto, Masakazu; Izui, Masako; Hayakawa, Atsushi;  
 Nakano, Eiichi; Kobayashi, Masaki; Yoshihara, Yasuhiko; Nakamatsu,  
 Tsuyoshi

SO PCT Int. Appl., 90 pp.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9640934	A1	19961219	WO 1996-JP1511	19960605 <--
CA 2224058	AA	19961219	CA 1996-2224058	19960605 <--
AU 9659107	A1	19961230	AU 1996-59107	19960605 <--
AU 705550	B2	19990527		
ZA 9604665	A	19970107	ZA 1996-4665	19960605 <--
BR 9606379	A	19970812	BR 1996-6379	19960605 <--
EP 841395	A1	19980513	EP 1996-916305	19960605 <--
CN 1192242	A	19980902	CN 1996-195952	19960605 <--
JP 3106501	B2	20001106	JP 1997-500307	19960605 <--
PRAI JP 1995-140614	A	19950607		
WO 1996-JP1511	W	19960605		

L5 ANSWER 10 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1996:582412 CAPLUS

TI Molecular control mechanisms of lysine and threonine biosynthesis in amino  
 acid-producing corynebacteria: Redirecting carbon flow

AU Malumbres, Marcos; Martin, Juan F.

SO FEMS Microbiol. Lett. (1996), 143(2-3), 103-114

L5 ANSWER 11 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1996:428332 CAPLUS

TI Engineering the homoserine dehydrogenase and threonine dehydratase control  
 points to analyze flux towards L-isoleucine in *Corynebacterium*

*glutamicum*

AU Morbach, S.; Kelle, R.; Winkels, S.; Sahm, H.; Eggeling, L.

SO Appl. Microbiol. Biotechnol. (1996), 45(5), 612-620

L5 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:974538 CAPLUS

TI Use of feedback-resistant threonine dehydratases of  
*Corynebacterium glutamicum* to increase carbon flux  
 towards L-isoleucine

AU Morbach, Susanne; Sahm, Hermann; Eggeling, Lothar

SO Appl. Environ. Microbiol. (1995), 61(12), 4315-320

L5 ANSWER 13 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:951305 CAPLUS

TI Lysine and its manufacture with coryneform bacteria transformed with an aspartokinase mutant and a homoserine dehydrogenase mutant

IN Sugimoto, Masakazu; Usuda, Yoshihiro; Suzuki, Tomoko; Tanaka, Akiko; Matsui, Hiroshi

SO PCT Int. Appl., 77 pp.  
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9523864 A1 19950908 WO 1995-JP268 19950223 <--  
EP 754756 A1 19970122 EP 1995-909969 19950223 <--  
CN 1147273 A 19970409 CN 1995-192867 19950223 <--  
US 5766925 A 19980616 US 1996-700359 19961008 <--

PRAI JP 1994-35019 19940304  
WO 1995-JP268 19950223

L5 ANSWER 14 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:849249 CAPLUS

TI Process for producing L-lysine by fermentation

IN Kojima, Hiroyuki; Ogawa, Yuri; Kawamura, Kazue; Sano, Konosuke

PA Ajinomoto Co., Inc., Japan

SO PCT Int. Appl., 91 pp.  
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9516042 A1 19950615 WO 1994-JP1994 19941128 <--  
JP 07155184 A2 19950620 JP 1993-308397 19931208 <--  
CA 2178589 AA 19950615 CA 1994-2178589 19941128 <--  
AU 9510770 A1 19950627 AU 1995-10770 19941128 <--  
AU 690168 B2 19980423  
EP 733710 A1 19960925 EP 1995-901600 19941128 <--  
CN 1142856 A 19970212 CN 1994-194962 19941128 <--  
HU 74961 A2 19970328 HU 1996-1535 19941128 <--  
HU 219608 B 20010528  
BR 9408288 A 19970826 BR 1994-8288 19941128 <--  
JP 2926990 B2 19990728 JP 1994-516087 19941128 <--  
SK 280629 B6 20000516 SK 1996-713 19941128 <--  
PL 181614 B1 20010831 PL 1994-314852 19941128  
ZA 9504518 A 19961202 ZA 1995-4518 19950601 <--  
US 6040160 A 20000321 US 1996-648010 19960529 <--

PRAI JP 1993-308397 A 19931208  
WO 1994-JP1994 W 19941128

L5 ANSWER 15 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:645144 CAPLUS

TI Cloning of gene for phosphoenolpyruvate carboxylase variants of Escherichia that are free of feedback inhibition by aspartic acid

IN Sugimoto, Masakazu; Suzuki, Tomoko; Matsui, Hiroshi; Izui, Katsura

SO PCT Int. Appl., 75 pp.NO. KIND DATE APPLICATION NO. DATE

PI WO 9506114 A1 19950302 WO 1994-JP1365 19940817 <--  
CA 2169170 AA 19950302 CA 1994-2169170 19940817 <--  
AU 9480991 A1 19950321 AU 1994-80991 19940817 <--  
AU 682547 B2 19971009  
EP 723011 A1 19960724 EP 1994-924384 19940817 <--  
HU 73690 A2 19960930 HU 1996-240 19940817 <--  
HU 219600 B 20010528  
CN 1133615 A 19961016 CN 1994-193905 19940817 <--

BR 9407625	A	19970121	BR 1994-7625	19940817 <--
RU 2133772	C1	19990727	RU 1996-107112	19940817 <--
PL 181380	B1	20010731	PL 1994-313119	19940817
CZ 289051	B6	20011017	CZ 1996-524	19940817
JP 07111890	A2	19950502	JP 1994-196777	19940822 <--
JP 3013711	B2	20000228		
JP 08070860	A2	19960319	JP 1994-196778	19940822 <--
US 5876983	A	19990302	US 1996-596366	19960429 <--
US 5919694	A	19990706	US 1997-967104	19971110 <--
PRAI JP 1993-209775	A	19930824		
JP 1993-209776	A	19930824		
JP 1994-153876	A	19940705		
WO 1994-JP1365	W	19940817		

L5 ANSWER 16 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:590325 CAPLUS

TI Transgenic canola and soybean seeds with increased lysine

AU Falco, S. C.; Guida, T.; Locke, M.; Mauvais, J.; Sanders, C.; Ward, R. T.; Webber, P.

SO Bio/Technology (1995), 13(6), 577-82

L5 ANSWER 17 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:540472 CAPLUS

TI Effect of different levels of aspartokinase on the lysine production by Corynebacterium lactofermentum

AU Jettan, M. S. M.; Follettie, M. T.; Sinskey, A. J.

SO Appl. Microbiol. Biotechnol. (1995), 43(1), 76-82

L5 ANSWER 18 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:504510 CAPLUS

TI Genetic characteristics of new L-lysine-producing strains

AU Cheng, Wen-Ling; Chang, Chun-Chin; Wang, Jyh-Shiou; Liu, Yao-Tung

SO Taiwan Tangye Yanjiuso Yanjiu Huibao (1994), 145, 25-31

LA Chinese

L5 ANSWER 19 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:297664 CAPLUS

TI Aspartate kinase of Brevibacterium flavum

MJ233 and its mutants free of L-lysine feedback inhibition

IN Sato, Yukie; Pponno, Nobutake; Kobayashi, Miki; Kohama, Keiko; Kuruusu, Yasuro; Yugawa, Hideaki

SO Jpn. Kokai Tokkyo Koho, 28 pp.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06261766	A2	19940920	JP 1993-55451	19930316 <--

L5 ANSWER 20 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1994:317353 CAPLUS

TI Molecular cloning of gene for aspartokinase of wild-type and mutant Corynebacterium

IN Sugimoto, Masakazu; Ogawa, Yuri; Suzuki, Tomoko; Tanaka, Akiko; Matsui, Yutaka

SO Jpn. Kokai Tokkyo Koho, 28 pp.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06062866	A2	19940308	JP 1993-101450	19930427 <--
WO 9425605	A1	19941110	WO 1993-JP1809	19931214 <--

*E. coli mutant lye*



	EP 699759	A1	19960306	EP 1994-902116	19931214 <--
	US 5688671	A	19971118	US 1995-532828	19951027 <--
PRAI	JP 1992-110292		19920428		
	JP 1993-101450		19930427		
	WO 1993-JP1809		19931214		

L5 ANSWER 21 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1994:50461 CAPLUS

TI Increasing the lysine and threonine content of the seeds of plants by introduction of genes for feedback-insensitive biosynthetic enzymes

IN Falco, Saverio Carl

SO PCT Int. Appl., 139 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9319190	A1	19930930	WO 1993-US2480	19930318 <--
	AU 9339233	A1	19931021	AU 1993-39233	19930318 <--
	AU 675933	B2	19970227		
	EP 640141	A1	19950301	EP 1993-908395	19930318 <--
	JP 07504821	T2	19950601	JP 1993-516720	19930318 <--
	ZA 9301978	A	19940919	ZA 1993-1978	19930319 <--
PRAI	US 1992-855414		19920319		
	WO 1993-US2480		19930318		

L5 ANSWER 22 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1993:553168 CAPLUS

TI Gene structure and expression of the *Corynebacterium flavum* N13 ask-asd operon

AU Follettie, Maximillian T.; Peoples, Oliver P.; Agoropoulou, Catherine; Sinskey, Anthony J.

SO J. Bacteriol. (1993), 175(13), 4096-103

L5 ANSWER 23 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1993:123032 CAPLUS

TI Isolation and properties of .alpha.-ketobutyrate-resistant lysine-producing mutants from *Brevibacterium flavum*

AU Shio, Isamu, Sugimoto, Shinichi; Kawamura, Kazue

SO Biosci., Biotechnol., Biochem. (1993), 57(1), 51-5

L5 ANSWER 24 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1993:97775 CAPLUS

TI Strains of *Corynebacterium glutamicum* with different lysine productivities may have different lysine excretion systems

AU Broer, Stefan; Eggeling, Lothar; Kraemer, Reinhard

SO Appl. Environ. Microbiol. (1993), 59(1), 316-21

L5 ANSWER 25 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1993:1999 CAPLUS

TI Temperature-sensitive plasmids for *Corynebacterium* bacteria

IN Sugimoto, Masakazu; Kojima, Hiroyuki; Tanaka, Akiko; Matsui, Hiroshi; Satoh, Katsuki; Nakamatsu, Tsuyoshi

SO Fr. Demande, 30 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2667875	A1	19920417	FR 1991-12701	19911015 <--
	FR 2667875	B1	19950505		
	JP 05007491	A2	19930119	JP 1991-245291	19910619 <--

Nothing to 380

	JP 07108228	B4	19951122		
	JP 07203977	A2	19950808	JP 1995-5223	19950117 <--
	JP 2763054	B2	19980611		
	US 5616480	A	19970401	US 1995-408188	19950322 <--
	US 5756347	A	19980526	US 1996-766488	19961213 <--
PRAI	JP 1990-273348		19901015		
	JP 1991-245291		19910619		
	US 1991-774846		19911011		
	US 1994-182361		19940118		
	US 1995-408188		19950322		

L5 ANSWER 26 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1992:610668 CAPLUS  
 TI Isolation and prominent characteristics of an L-lysine hyperproducing strain of *Corynebacterium glutamicum*  
 AU Schrupf, Baerbel; Eggeling, Lothar; Sahm, Hermann  
 SO Appl. Microbiol. Biotechnol. (1992), 37(5), 566-71

L5 ANSWER 27 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1992:587995 CAPLUS  
 TI Mechanism of lysine uptake and secretion by *Corynebacterium glutamicum*  
 AU Broer, Stefan; Kraemer, Reinhard  
 SO Dev. Biochem. (1992), 29(Mol. Mech. Transp.), 67-74

L5 ANSWER 28 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1992:565134 CAPLUS  
 TI A novel system for genetic engineering of amino acid producing corynebacteria and the analysis of AEC-resistant mutants  
 AU Puehler, A.; Kassing, F.; Winterfeldt, A.; Kalinowski, J.; Schaefer, A.; Schwarzer, A.; Seep-Feldhaus, A.; Rossol, I.  
 SO Proc. - Eur. Congr. Biotechnol., 5th (1990), Volume 2, 975-8.  
 Editor(s): Christiansen, Claus; Munck, Lars; Villadsen, John. Publisher: Munksgaard, Copenhagen, Den.

L5 ANSWER 29 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1992:122102 CAPLUS  
 TI Genetic and biochemical analysis of the aspartokinase from *Corynebacterium glutamicum*  
 AU Kalinowski, J.; Cremer, J.; Bachmann, B.; Eggeling, L.; Sahm, H.; Pruehler, A.  
 SO Mol. Microbiol. (1991), 5(5), 1197-204

L5 ANSWER 30 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1991:534008 CAPLUS  
 TI Flow control of lysine biosynthesis in *Corynebacterium glutamicum*  
 AU Eggeling, L.; Cremer, J.; Schrupf, B.; Sahm, H.  
 SO DECHEMA Biotechnol. Conf. (1990), 4(Pt. A, Lect. DECHEMA Annu. Meet. Biotechnol., 8th, 1990), 103-6

L5 ANSWER 31 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1991:490668 CAPLUS  
 TI Lysine manufacture with recombinant *Corynebacterium* or *Brevibacterium*  
 IN Cremer, Josef; Eggeling, Lothar; Sahm, Hermann.  
 SO Eur. Pat. Appl., 12 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 435132	A1	19910703	EP 1990-124557	19901218 <--
	EP 435132	B1	19940817		
	DE 3943117	A1	19910704	DE 1989-3943117	19891227 <--
PRAI	DE 1989-3943117		19891227		
L5	ANSWER 32 OF 53	CAPLUS	COPYRIGHT 2002 ACS		
AN	1991:465660	CAPLUS			
TI	Control of the lysine biosynthesis sequence in Corynebacterium glutamicum as analyzed by overexpression of the individual corresponding genes				
AU	Cremer, Josef; Eggeling, Lothar; Sahm, Hermann				
SO	Appl. Environ. Microbiol. (1991), 57(6), 1746-52				
L5	ANSWER 33 OF 53	CAPLUS	COPYRIGHT 2002 ACS		
AN	1991:465618	CAPLUS			
TI	Aspartokinase genes lysC.alpha. and lysC .beta. overlap and are adjacent to the aspartate .beta.-semialdehyde dehydrogenase gene asd in Corynebacterium glutamicum				
AU	Kalinowski, Joern; Bachmann, Bernd; Thierbach, Georg; Puehler, Alfred				
SO	Mol. Gen. Genet. (1990), 224(3), 317-24				
L5	ANSWER 34 OF 53	CAPLUS	COPYRIGHT 2002 ACS		
AN	1991:227480	CAPLUS			
TI	Lysine manufacture with recombinant Corynebacterium glutamicum				
IN	Bachmann, Bernd; Thierbach, Georg; Kalinowski, Joern; Puehler, Alfred				
SO	Eur. Pat. Appl., 17 pp.				
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AU Thierbach, Georg; Kalinowski, Joern; Bachmann, Bernd; Puehler, Alfred  
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